



APACHE
AIRAVATA



Cybershuttle

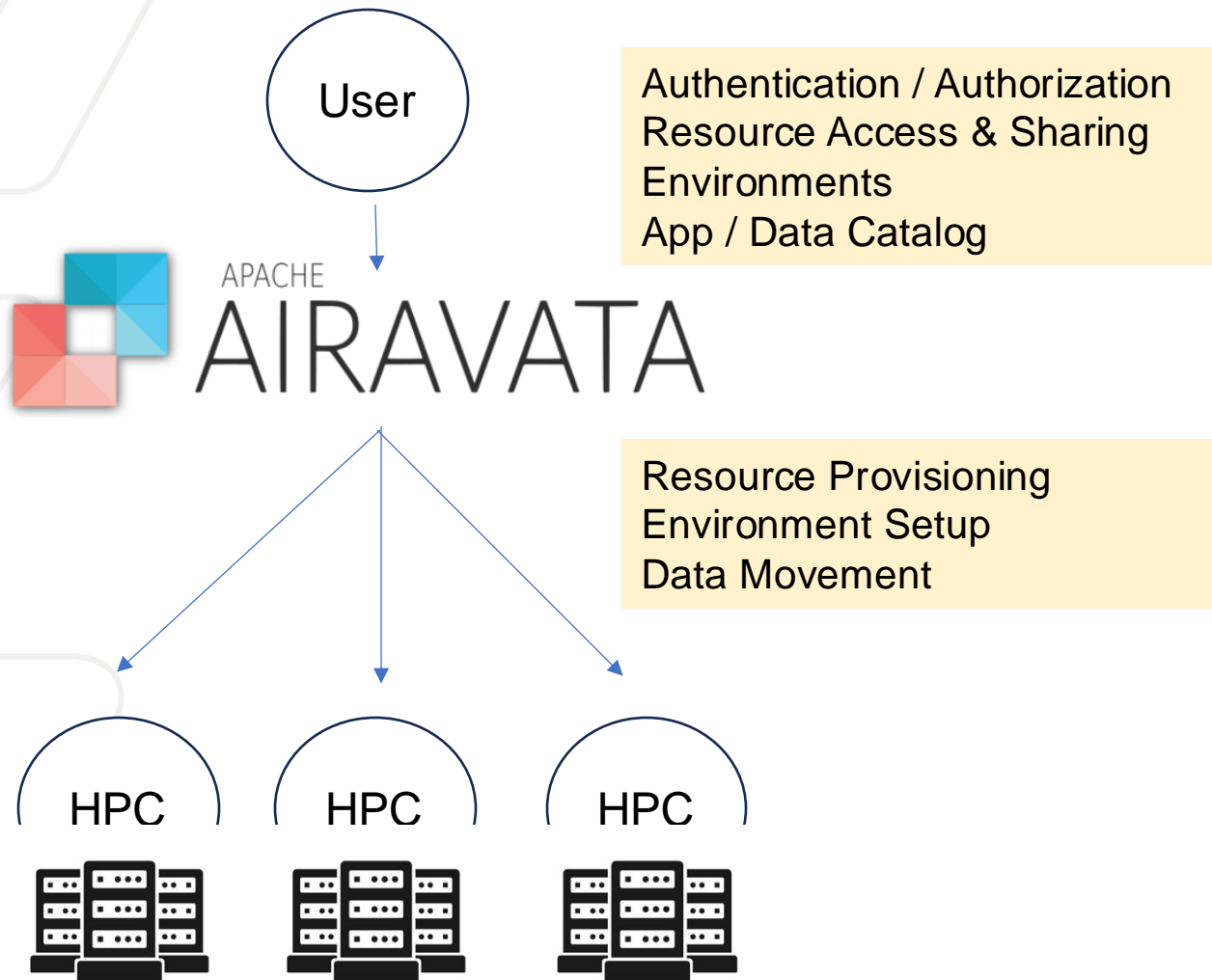
Apache Software Foundation



Georgia Tech
Center for AI in Science
and Engineering

Apache Airavata

A Middleware for Distributed Scientific Computing



- **User-Facing Features**
Manages user access, resource sharing, environment setup, and scientific data storage.
- **HPC-Facing Features**
Handles resource allocation, environment setup, and data movement across many HPC clusters.
- **Community-Driven**
Developed by contributors from universities, research institutions, and industry.

Airavata Ecosystem for Scientific Computing



Cybershuttle

A Science-Centric Research Platform Powered by Airavata

Support End-to-End Research Workflows

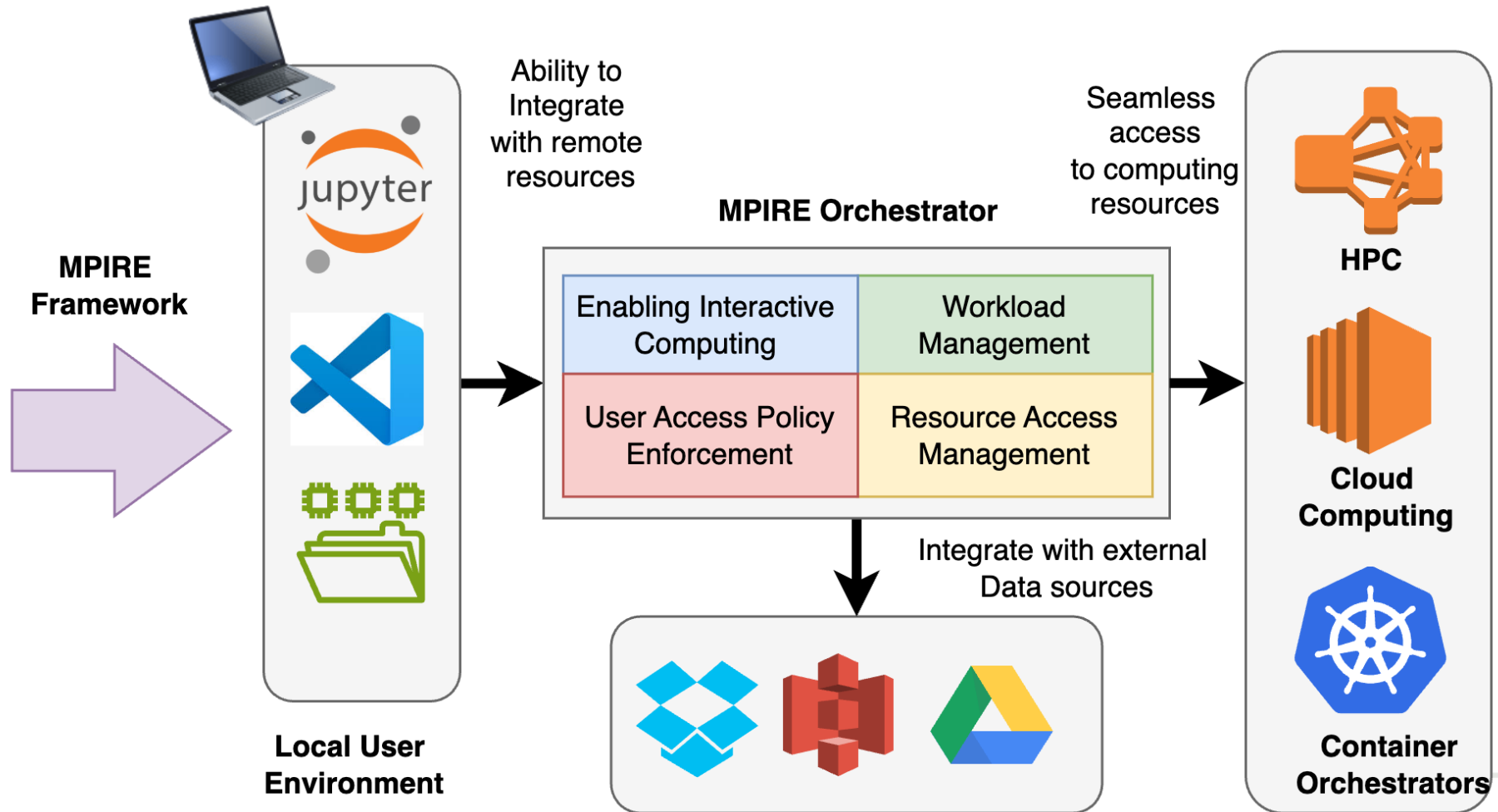
Local First Computing

Integrate Remote Datasets

Resource Discovery

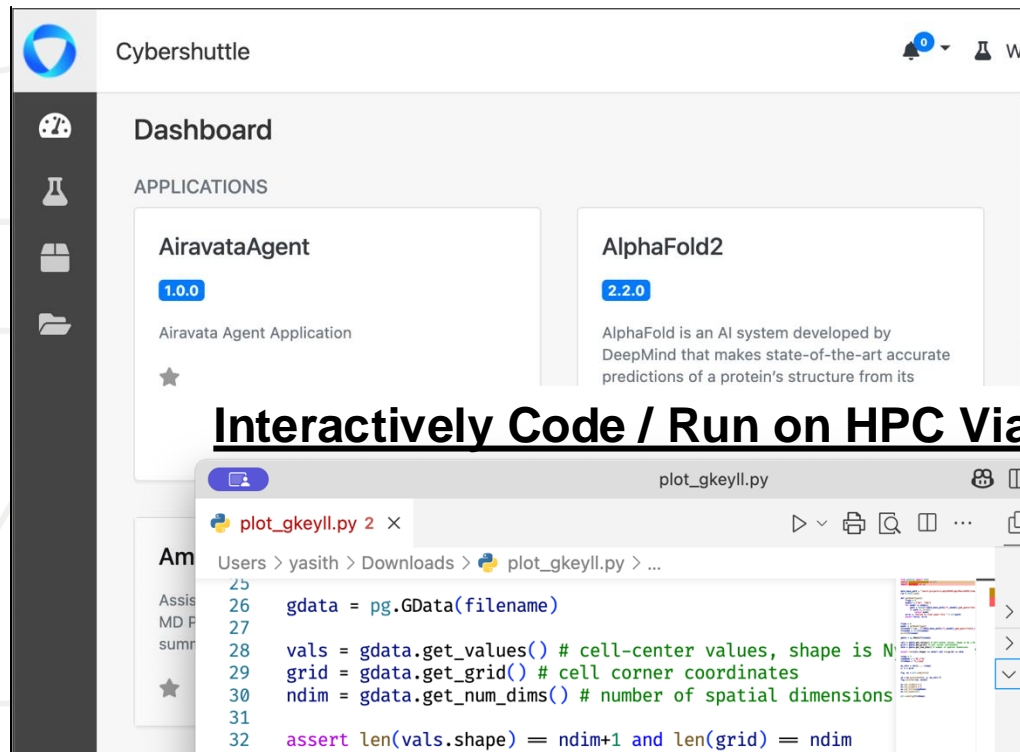
Interactive computing on HPCs

Minimize HPC usage Overhead

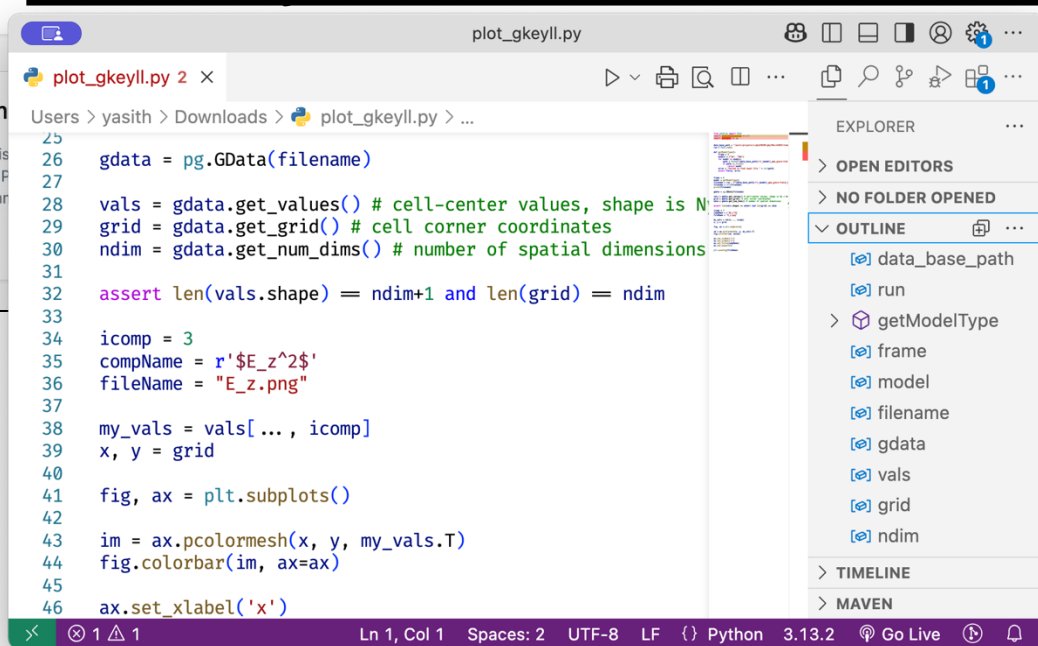


Cybershuttle Usage Flavors

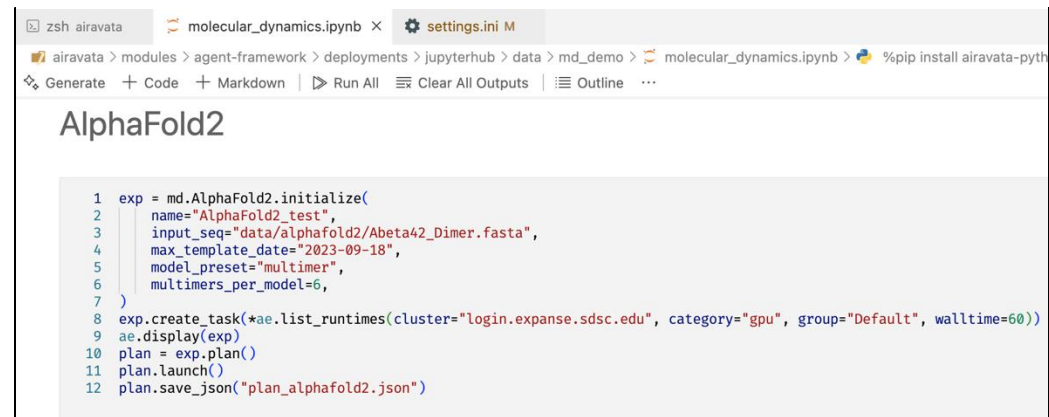
Run Scientific Apps Via Web UI



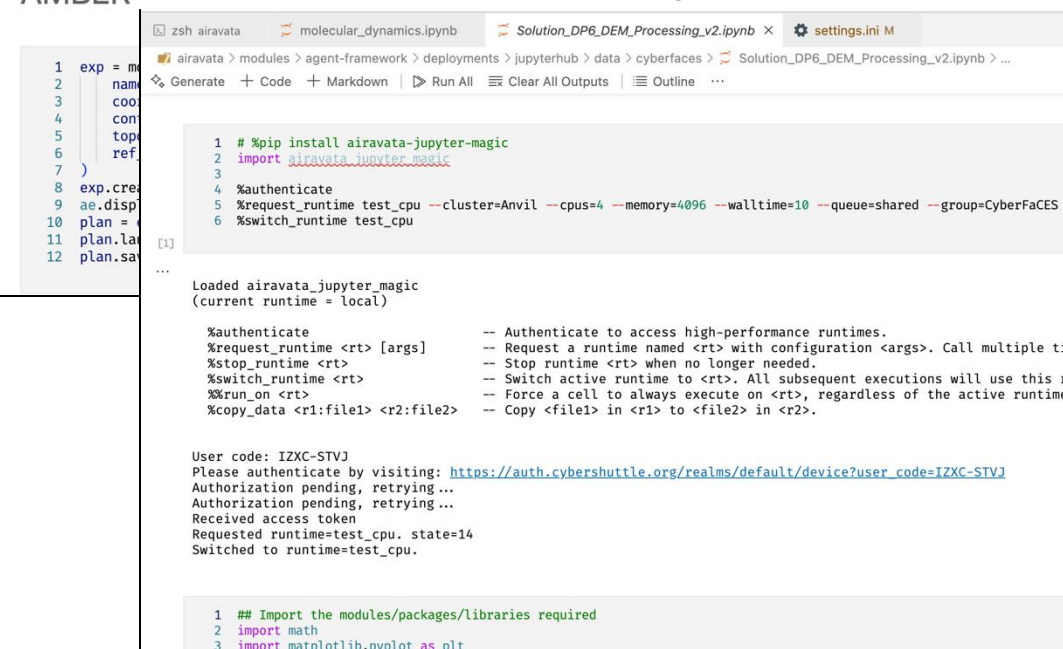
Interactively Code / Run on HPC Via VSCode



Run Scientific Apps Via Python SDK



AMBER Annotate and Run Jupyter Notebooks



How to Get Involved?



More Information and Links

Join the Mailing List

Introduce yourself, read discussions.

Report Issues, Improve Docs

Easy first steps to contribute.

Submit Pull Requests

Fix bugs, add features, engage with committers.

Participate in Community Discussions – Apache projects value collaborative decision-making.

Earn Committer Status through sustained contributions.